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Race-Driven A-21185

Race-Driven Front and Rear Steel Sprockets for Yamaha WR250F (2001-2013)

Instruction Manual

Introduction

Thank you for choosing Race-Driven Steel Sprockets. This manual provides essential information for the proper installation, maintenance, and care of your new front and rear sprockets. These sprockets are designed to meet or exceed OEM specifications, ensuring reliable performance for your Yamaha WR250F.

For optimal performance and safety, it is crucial to follow all instructions carefully. If you are unsure about any step, please consult a qualified motorcycle mechanic or your motorcycle's official service manual.

Safety Information

- Always wear appropriate personal protective equipment (PPE) when working on your motorcycle, including safety glasses and gloves.
- Ensure the motorcycle is securely supported on a stand before beginning any work on the drive train.
- Allow the engine and exhaust system to cool completely before handling components to prevent burns.
- Keep hands and clothing clear of moving parts.
- Use the correct tools for each task to prevent damage to components or injury.
- Refer to your Yamaha WR250F service manual for specific torque specifications and detailed procedures.

Product Overview

This product includes a set of Race-Driven steel sprockets:

- **Front Sprocket:** 12-tooth, steel construction.
- **Rear Sprocket:** 50-tooth, steel construction.
- **Pitch:** Both sprockets are designed for a 520 pitch chain.

These sprockets are manufactured from hardened S45C steel for durability and extended service life.



Image: The complete Race-Driven sprocket set, featuring a smaller black 12-tooth front sprocket and a larger silver 50-tooth rear sprocket, designed for motorcycle drive systems.

Compatibility

These Race-Driven Front and Rear Steel Sprockets are specifically designed to fit the following motorcycle model and years:

- **Make:** Yamaha
- **Model:** WR250F
- **Years:** 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013

Ensure your motorcycle's make, model, and year match these specifications before installation.

Setup and Installation

Proper installation is critical for the safe and effective operation of your motorcycle's drive train. If you are not experienced with motorcycle maintenance, professional installation is recommended.

Pre-Installation Checks:

- Verify that the new sprockets match the specifications of your motorcycle and the chain pitch (520).
- Inspect the new sprockets for any manufacturing defects or damage.
- Ensure you have all necessary tools and a clean workspace.

General Installation Steps (Consult your motorcycle's service manual for detailed, model-specific instructions):

1. **Prepare the Motorcycle:** Place the motorcycle on a stable stand so the rear wheel is off the ground.
2. **Remove Old Components:**
    - Remove the chain guard and front sprocket cover.
    - Loosen the rear axle nut and adjust the chain tensioners to move the wheel forward, creating slack in the chain.
    - Remove the master link from the chain (if applicable) or cut the old chain.
    - Remove the old front sprocket retaining clip/nut and slide off the old front sprocket.
    - Remove the rear wheel. Unbolt and remove the old rear sprocket from the wheel hub.
3. **Install New Rear Sprocket:** Mount the new 50-tooth rear sprocket onto the wheel hub, ensuring proper alignment. Secure it with the appropriate bolts and torque to the manufacturer's specifications (refer to your

service manual).



Image: A close-up view of the Race-Driven 50-tooth silver rear sprocket, showcasing its precision-cut teeth and mounting holes.

4. **Install New Front Sprocket:** Slide the new 12-tooth front sprocket onto the output shaft, ensuring it is correctly seated. Secure it with the retaining clip or nut, torquing to specifications.



Image: A close-up view of the Race-Driven 12-tooth black front sprocket, highlighting its robust construction and splined center for shaft engagement.

5. **Reinstall Rear Wheel and Chain:** Reinstall the rear wheel. Install a new 520 pitch chain, ensuring it is routed correctly around both sprockets. Connect the chain using a new master link, following the chain manufacturer's instructions.
6. **Adjust Chain Tension:** Adjust the chain tension according to your motorcycle's service manual specifications. Proper chain tension is crucial for performance and longevity.
7. **Final Checks:** Rotate the wheel manually to ensure the chain and sprockets move freely without binding. Reinstall all covers and guards. Double-check all fasteners for proper torque.

Important Note on Gearing: Changing sprocket sizes (like 12/50 tooth) will alter your motorcycle's gearing. This can affect acceleration and top speed. Always check your chain length when changing gearing to ensure it is still appropriate. A new chain is often recommended when installing new sprockets to ensure even wear and optimal

performance.

Maintenance

Regular maintenance of your sprockets and chain is essential for safety, performance, and longevity.

Inspection:

- **Frequency:** Inspect your sprockets and chain every 500-1000 miles or before every major ride.
- **Sprocket Wear:** Look for hooked or pointed teeth, which indicate wear. Worn sprockets can accelerate chain wear.
- **Damage:** Check for bent, cracked, or missing teeth.
- **Chain Condition:** Inspect the chain for tight spots, rust, kinks, or excessive slack.

Cleaning and Lubrication:

- **Cleaning:** Regularly clean your chain and sprockets using a suitable chain cleaner and brush to remove dirt, grime, and old lubricant.
- **Lubrication:** After cleaning, apply a high-quality chain lubricant evenly to the entire chain, ensuring it penetrates the rollers and O-rings (if applicable).

Chain Tension Adjustment:

- Maintain proper chain tension as specified in your motorcycle's service manual. Incorrect tension can lead to premature wear of sprockets and chain, or even chain derailment.

Replacement:

- Sprockets and chain should ideally be replaced as a set. A new chain on worn sprockets, or vice-versa, will lead to rapid wear of the new component.
- Replace sprockets when teeth show significant wear (hooked or pointed profile).

Troubleshooting

If you experience issues with your drive train after sprocket installation, consider the following:

- **Excessive Noise or Vibration:**
    - Check chain tension: Too tight or too loose.
    - Inspect for proper alignment of front and rear sprockets.
    - Ensure chain is clean and properly lubricated.
    - Verify sprockets are correctly seated and torqued.
- **Rapid Wear of Sprockets/Chain:**
    - Improper chain tension.
    - Lack of lubrication or improper cleaning.
    - Misaligned sprockets.
    - Using an old chain with new sprockets (or vice-versa).
- **Chain Derailment:**
    - Severely incorrect chain tension.
    - Damaged or excessively worn sprockets/chain.

- Improperly installed master link.

For persistent issues, consult a professional motorcycle mechanic.

Specifications

Feature	Detail
Manufacturer	Race-Driven
Brand	Race-Driven
Model Number	A-21185
Front Sprocket Teeth	12
Rear Sprocket Teeth	50
Chain Pitch	520
Material	S45C Hardened Steel
Item Weight	4 pounds
Product Dimensions	13 x 1 x 13 inches
Compatible Motorcycle Model	Yamaha WR250F
Compatible Years	2001-2013

Warranty Information

For specific warranty details regarding your Race-Driven sprockets, please refer to the official Race-Driven website or contact their customer support directly. Warranty terms and conditions may vary.

Support

If you have any questions, require technical assistance, or need further information about your Race-Driven sprockets, please contact Race-Driven customer support through their official channels. You can typically find contact information on their website or through the retailer where the product was purchased.

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